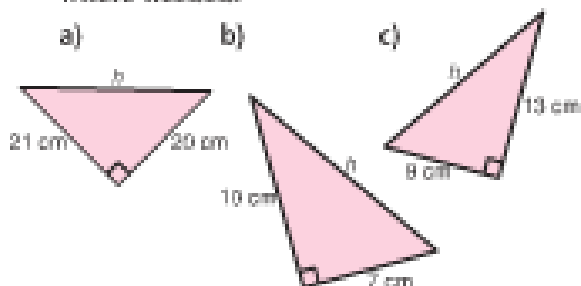


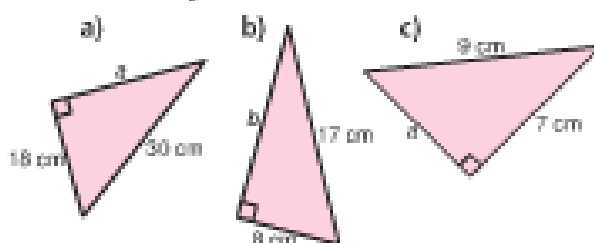
Practice

Check

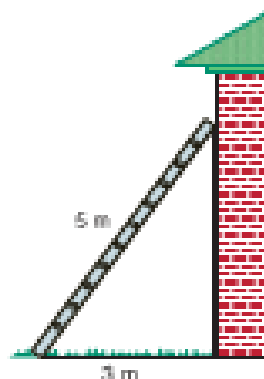
4. Find the length of each hypotenuse. Give your answers to one decimal place where needed.



5. Find the length of each leg labelled with a variable. Give your answers to one decimal place where needed.



6. A 5-m ladder leans against a house. It is 3 m from the base of the wall. How high does the ladder reach?

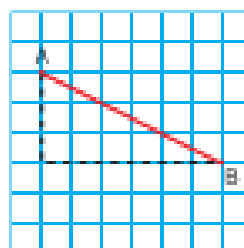


Apply

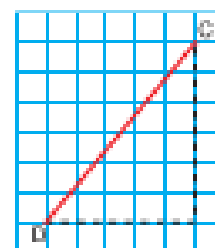
7. As part of a design for a book cover, Brandon constructed a right triangle with sides 10 cm and 24 cm.
- How long is the third side?
 - Why are two answers possible to part a?

8. Find the length of each line segment. Give your answers to one decimal place.

a)



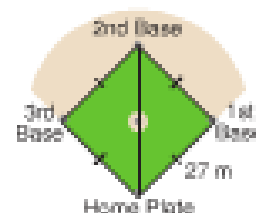
b)



9. Alyssa has made a picture frame for the painting she just finished. The frame is 60 cm long and 25 cm wide. To check that the frame has square corners, Alyssa measures a diagonal. How long should the diagonal be? Sketch a diagram to illustrate your answer.



10. A boat is 35 m due south of a dock. Another boat is 84 m due east of the dock. How far apart are the boats?
11. A baseball diamond is a square with side length about 27 m. The player throws the ball from second base to home plate. How far did the player throw the ball? Give your answer to two decimal places.



- 13.** The size of a TV set is described by the length of a diagonal of the screen. One TV is labelled 27 inches, which is about 70 cm. The screen is 40 cm high. What is the width of the screen? Give your answer to one decimal place. Draw a diagram to illustrate your answer.



- 14. Assessment Focus** Look at the grid. Without measuring, find another point that is the same distance from A as B is. Explain your strategy. Show your work.

